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owner's manual

5" BLACK & WHITE TV

with CD Player and AM/FM Radio

RCA

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FEATURES

Your RCA 5-Inch Black and White TV is a compact, portable, all-in-one audio/video entertainment system. You can use it to enjoy music from your favorite CDs as well as TV and radio programs almost anywhere you go — at home, in your car, or outdoors.

TV/RADIO FEATURES

VHF/UHF and AM/FM — receives TV channels 2 through 69, plus AM and FM radio stations.

Brightness Control — lets you adjust the picture when it is too dark or too bright.

Contrast Control — lets you increase or decrease the picture contrast.

V-Hold Control — lets you eliminate vertical roll from your TV picture.

External Antenna Jack — lets you connect a standard TV antenna for improved reception.

CD PLAYER FEATURES

4 Times Oversampling — improves the CD's sound by shifting ultrasonic noise to a frequency four times the standard 44.1 kHz sample rate, where it can be removed by an analog filter.

Repeat Play — lets you automatically repeat a single track or an entire CD.

GENERAL FEATURES

Three Power Sources — let you operate your TV using batteries, vehicle battery power, or standard AC power.

Headphone Jack — lets you connect headphones to enjoy private listening.

Tone Control — lets you balance and customize the sound.

Built-In Rod Antenna — provides adequate reception in most metropolitan areas.

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WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

CDs that can be played on this player have this mark on them:

This CD player is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.

Warnings:

- This CD player employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
- The use of controls, adjustments, or procedures other than those specified herein might result in hazardous radiation exposure.

FCC INFORMATION

This equipment complies with the limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio and TV interference in a residential area. However, your equipment might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the radio or TV.
- Use outlets on different electrical circuits for the equipment and the radio or TV.
- Consult your local RadioShack store if the problem still exists.
- You must use shielded interface cables with this equipment.

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PREPARATION

CONNECTING POWER

You can power your TV from:

- internal batteries
- standard AC power
- a vehicle's cigarette-lighter socket.

Note: Connecting an AC or DC adapter automatically disconnects internal batteries.

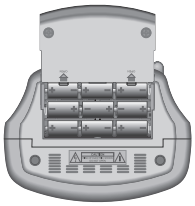
Installing Batteries

Your TV uses nine D batteries (not supplied). For the best results, we recommend RadioShack alkaline batteries.

You can also use rechargeable nickel-cadmium batteries. If you use rechargeable nickel-cadmium batteries, you must charge/recharge them with a battery charger (both items available at your local RadioShack store).

Follow these steps to install the batteries.

1. Turn the TV over and press the arrow marks on the battery compartment cover. Then slide the cover off in the direction of the arrows.
2. Install nine alkaline batteries as indicated by the polarity symbols (+ and –) marked inside the compartment.



Caution:
Installing batteries incorrectly can damage the TV.

3. Slide the battery cover all the way back until it locks securely.

Note: The TV can operate for about 8 hours with alkaline batteries. When the sound level lowers or the picture becomes unstable, replace the batteries.

Using AC Power

You can power the TV from a standard AC outlet.

Caution: You must use a power source that supplies 12–14 volts DC and delivers at least 1 Amp. Its center tip must be set to positive and its plug must fit the TV's **DC 12–14V IN** jack. Using an adapter that does not meet these specifications could damage the TV or the adapter.

1. Plug the adapter's barrel plug into the TV's **DC 12–14V IN** jack.
2. Plug the other end of the adapter into a standard AC outlet.

Notes:

- Do not leave the adapter plugged into the AC outlet or connected to the TV when you are not using it.
- Always unplug the adapter from the AC outlet first.
- Internal batteries automatically disconnect when you plug an adapter into the **DC 12–14V IN** jack.
- The adapter might become warm after extended periods of use.

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Using Vehicle Battery Power

You can use an optional DC adapter to power the TV from your vehicle's cigarette lighter socket.

Caution: You must use a power source that supplies 12–14 volts DC and delivers at least 1 Amp. Its center tip must be set to positive and its plug must fit the TV's **DC 12–14V IN** jack. Using an adapter that does not meet these specifications could damage the TV or the adapter.

1. Plug the adapter's barrel plug into the TV's **DC 12–14V IN** jack.
2. Unplug you vehicle's cigarette lighter and plug the large end of the DC adapter cord into the cigarette-lighter socket.

Notes:

- If the TV does not operate properly when you use DC power, be sure the cigarette-lighter socket is clean and that the adapter's plug is pushed all the way into the socket.
- Do not leave the adapter plugged into the cigarette-lighter socket or connected to the TV when you are not using the TV.
- Always unplug the adapter from the cigarette-lighter socket first.
- Internal batteries automatically disconnect when you plug an adapter into the **DC 12–14V IN** jack.

USING AN ANTENNA

Using the Built-In Antenna

You can receive VHF and UHF broadcast signals by using the built-in telescoping antenna, which usually provides good reception for the TV and FM radio.

Extend the antenna to its full length for Channels 2–6 (VHF-L) or 14–69. (UHF).

Extend the antenna to a shorter length for Channels 7–13 (VHF-H).

Connecting an Outdoor Antenna

For improved reception, you can connect an optional outdoor VHF/UHF antenna to the TV's **EXT ANT** jack. Before connecting the outdoor antenna, disconnect the F-connector from the **EXT ANT** jack.

If the outdoor antenna wire is 300-ohm double lead-in wire, connect the wire using an external 300-ohm antenna adapter (not supplied). Radio Shack offers a variety of adapters.

If the outdoor antenna wire or CATV cable is 75-ohm coaxial cable, connect the cable to the TV's **EXT ANT** jack through an F-connector (available at your local RadioShack store).

Warning: When you install an outdoor antenna, use extreme caution. If the antenna starts to fall, let it go! It could contact overhead power lines. If the antenna touches the power line, contact with the antenna,

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mast, cable, or guy wires can cause electrocution and death. Call the power company to remove the antenna. Do not attempt to remove it yourself!

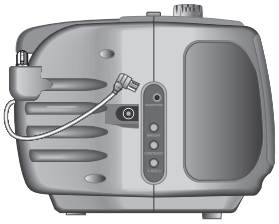
Notes:

- Your local RadioShack store carries a wide selection of antennas and adapters.
- For better reception in your vehicle, you can connect a mobile TV antenna to the **EXT ANT** jack.
- The TV is not "cable ready."

CONNECTING HEADPHONES

For private listening, you can connect optional headphones with a 1/8-inch (3.5 mm) mini plug. Your local RadioShack store carries a wide selection of headphones.

Insert the headphones' plug into the TV's **HEADPHONE** jack. This automatically disconnects the TV's internal speaker.



Listening Safely

To protect your hearing, follow these guidelines when you use headphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended, high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

Traffic Safety

Do not wear headphones while operating a motor vehicle. This can create a traffic hazard and could be illegal in some areas.

Even though some headphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

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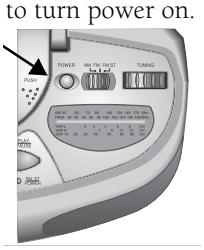
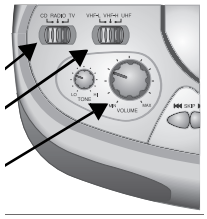
OPERATION

TV OPERATION

1. Press **POWER ON/OFF** to the **ON** (in) position to turn power on.



2. Rotate **VOLUME** to the desired listening level.



3. Slide **CD/Radio/TV** to **TV**.
4. Slide **VHF-L/VHF-H/UHF** to the desired band as follows.

Channels	Use
2–6	VHF-L
7–13	VHF-H
14–69	UHF

5. Slowly rotate **TUNING** to the desired station.
6. Adjust the built-in telescoping antenna for the best picture and sound. (See "Using the Built-In Antenna" on Page 6).
7. Adjust **BRIGHT** and **CONTRAST** on the left side of the TV until the desired picture appears.

8. If necessary, adjust **V-HOLD** on the left side to stop any vertical roll in the TV's picture.
9. To turn off the TV, press **POWER ON/OFF** to the **OFF** (out) position.

Notes:

- If the image is blurry, unstable, or has "snow," the signal might be weak. This can be caused by the TV's location or the position and length of the telescoping antenna. Buildings made with large amounts of steel can cause reception problems. Try changing the position and length of the antenna. If this does not help, use an outdoor antenna (see "Connecting an Outdoor Antenna" on Page 6).
- If the TV picture shrinks during battery power operation, the batteries might be weak. Check and replace (or recharge) the batteries as needed.

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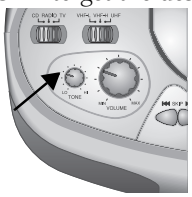
RADIO OPERATION

1. Press **POWER ON/OFF** in to turn power on.
2. Slide **CD/Radio/TV** to **Radio**.
3. Slide **AM/FM/FM ST** (Stereo) to the desired band.
4. Slowly rotate **TUNING** to the desired station.
5. Rotate **VOLUME** to the desired listening level.
6. Rotate **TONE** to get the desired tone.



7. To turn off the TV, press **POWER ON/OFF** to the **OFF** (out) position.

Notes:

- If FM reception is weak, try changing the position of the telescoping antenna.
- If FM stereo reception with **AM/FM/FM ST** set to **FM ST** is weak, slide it to **FM**. The sound is no longer in stereo, but reception should improve.
- Weak AM reception might be due to the distance of the station or a building with steel construction. Turn the TV in different directions for the best reception.

CD OPERATION

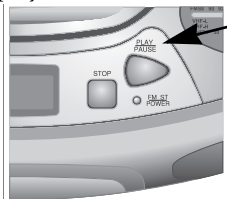
Loading/Unloading a CD

1. Press **POWER ON/OFF** in to turn power on.
2. Set **CD/Radio/TV** to **CD**. **–** briefly appears on the display.
3. Press the dots under **PUSH** on the CD compartment door so the door springs open.
4. Place a CD in the compartment with the label facing up.
5. Close the CD compartment door. The total number of tracks appears on the display.

   Note: If the CD has more than 39 tracks, the first digit on the display is replaced with a symbol. For example, if the CD has 44 tracks, Ξ**4** appears.
6. To remove the CD, open the compartment door, grasp the CD by its edges, and carefully pull it out.

Playing a CD

1. Press **PLAY/PAUSE** to play all the tracks in order, starting with Track 1. The current track number appears on the display.



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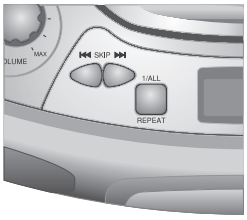
Note: Press **PLAY/PAUSE** again to temporarily stop the CD. The current track number flashes. Press **PLAY/PAUSE** again to resume playing the CD.

2. Adjust **VOLUME** to a comfortable level.
3. Rotate **TONE** to **HI** to increase the treble sound or **LO** to increase the bass.
4. Press **STOP** ■ to stop playing the CD before all tracks have played. Wait a few seconds for the CD to stop turning, then press the dots under **PUSH** on the CD door to open the CD compartment door. Remove the CD.

AUTOMATIC SEARCH MUSIC SYSTEM

The automatic search music system lets you quickly locate the beginning of any track on the CD, including the track currently playing.

If the CD is stopped, repeatedly press ⏮ **SKIP** or **SKIP** ⏭ until the display shows the number of the track you want to play, then press **PLAY** ▶. The CD player starts playing the selected track.



If the CD is playing:

1. Press ⏮ **SKIP** to return to the beginning of the current track.
2. Press ⏮ **SKIP** again to skip to the beginning of the previous track.
3. Press **SKIP** ⏭ to skip to the beginning of the next track.

To search backward or forward within a track while the CD is playing, hold down either ⏮ **SKIP** or **SKIP** ⏭. You hear the track play rapidly and at a lower volume. Release the button to resume normal play.

REPEAT PLAY

This function lets you repeat the current track or an entire CD.

To repeat the current track, press **REPEAT 1/ALL** twice during play. The REPEAT 1 indicator appears and the CD player continuously replays the current track.

To repeat an entire CD, press **REPEAT 1/ALL** once. The REPEAT indicator appears and the CD player continuously replays the entire CD.

To cancel repeat play, press **REPEAT 1/ALL** until the REPEAT indicator disappears.

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CARE AND MAINTENANCE

Your RCA 5-Inch Black and White TV is an example of superior design and craftsmanship. The following suggestions will help you care for your TV so you can enjoy it for years.

Keep the TV dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.

Use and store the TV only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.

Keep the TV away from dust and dirt, which can cause premature wear of parts.

Handle the TV gently and carefully. Dropping it can damage circuit boards and cases and can cause the TV to work improperly.

Use only fresh batteries of the required size and recommended type. Batteries can leak chemicals that damage your TV's electronic parts.

Wipe the TV with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the TV.

Modifying or tampering with the TV's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it.

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CD CARE TIPS

Even though a compact disc is durable, treat the CD surface with care.

- Do not write on either side of the CD, particularly the non-label side (signals are read from the non-label side).
- Do not store CDs in high temperature, high-humidity locations. They might warp.
- Keep CDs dry. A water drop can act as a lens and affect the laser beam's focus.
- Always handle a CD by the edges to avoid fingerprints and always keep it in its protective case or sleeve when it is not in use. Fingerprints and scratches on the CD's surface can prevent the laser beam from correctly reading the digital information. If the CD gets scratched, use Scratch 'n Fix (available at your local RadioShack store) to repair the disc.

TROUBLESHOOTING

This TV has been manufactured to the specifications of RadioShack and is covered by a limited warranty from RadioShack. If your TV is not operating as it should, take it to your local RadioShack store or call 1-800-THE-SHACK for assistance.

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SPECIFICATIONS

TV

System ..... NTSC

Picture Tube ..... 5 Inches (12.7 cm) (measured diagonally)

Antenna ..... Telescopic Rod Antenna

Receiving Channels:

VHF-Low ..... Channels 2–6

VHF-High ..... Channels 7–13

UHF ..... Channels 14–69

Sensitivity:

VHF ..... 100 µV (S/N: 30 dB)

UHF ..... 200 µV (S/N: 30 dB)

Radio

Frequency Range:

AM ..... 530–1710 kHz

FM ..... 88–108 MHz

CD Player

Frequency Response ..... 20–20,000 Hz

Signal-to-Noise Ratio ..... 85 dB

Sampling Frequency ..... 44.1 kHz

Oversampling ..... 4 Times

Total Harmonic Distortion (Standard Measurement) ..... < 3 %

General

Power Supply ..... AC 120V, 60 Hz or 9 D Cell Batteries or 12V DC

Power Consumption:

DC ..... 16 Watts

AC ..... 23 Watts

Output Power (10% THD) ..... 2 x 1.5 Watts

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Speaker ..... 4 Ohms

Dimension(HWD) ..... 7¼ x 13⅛ x 9⅝ Inches (184 x 333 x 244 mm)

Weight (Including 9 D Batteries) ..... 9 lb 3.3 oz. (4.17 kg)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

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NOTES

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Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

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